

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/586,229
Source: IFWP
Date Processed by STIC: 7/26/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 07/26/2006

PATENT APPLICATION: US/10/586,229

TIME: 14:17:48

Input Set : A:\50274.021003.SEQLIST.TXT

Output Set: N:\CRF4\07262006\J586229.raw

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4 <110> APPLICANT: VOLLMERS, Heinz Peter
5      MUELLER-HERMELINK, Hans Konrad
6      HENSEL, Frank
8 <120> TITLE OF INVENTION: Neoplasm-Specific Polypeptides and Their
9      Uses
11 <130> FILE REFERENCE: 50274/021003
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/586,229
C--> 13 <141> CURRENT FILING DATE: 2006-07-19
13 <150> PRIOR APPLICATION NUMBER: PCT/US05/02480
14 <151> PRIOR FILING DATE: 2005-01-26
16 <150> PRIOR APPLICATION NUMBER: US 10/764,730
17 <151> PRIOR FILING DATE: 2004-01-26
19 <160> NUMBER OF SEQ ID NOS: 30
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 288
25 <212> TYPE: DNA
26 <213> ORGANISM: Mus musculus
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (1)...(288)
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34 Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr Tyr Ile Asn Trp
35 1          5          10          15
37 gtg aag cag agg act gga cag ggc ctt gag tgg att gga gag att tat      96
38 Val Lys Gln Arg Thr Gly Gln Gly Leu Glu Trp Ile Gly Glu Ile Tyr
39          20          25          30
41 cct gga agt ggt aat act tac tac aat gag aag ttc aag ggc aag gcc      144
42 Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys Gly Lys Ala
43          35          40          45
45 aca ctg act gca gac aaa tcc tcc agc aca gcc tac atg cag ctc agc      192
46 Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser
47          50          55          60
49 agc ctg aca tct gag gac tct gca gtc tat ttc tgt gca aga tcg gga      240
50 Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg Ser Gly
51 65          70          75          80
53 tta cga ccc tat gct atg gac tac tgg ggt caa gga acc tca gtc acc      288
54 Leu Arg Pro Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr
55          85          90          95
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 96
61 <212> TYPE: PRT

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62 <213> ORGANISM: Mus musculus

64 <400> SEQUENCE: 2

65 Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr Tyr Ile Asn Trp

66 1 5 10 15

67 Val Lys Gln Arg Thr Gly Gln Gly Leu Glu Trp Ile Gly Glu Ile Tyr

68 20 25 30

69 Pro Gly Ser Gly Asn Thr Tyr Tyr Asn Glu Lys Phe Lys Gly Lys Ala

70 35 40 45

71 Thr Leu Thr Ala Asp Lys Ser Ser Thr Ala Tyr Met Gln Leu Ser

72 50 55 60

73 Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg Ser Gly

74 65 70 75 80

75 Leu Arg Pro Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr

76 85 90 95

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80 <211> LENGTH: 315

81 <212> TYPE: DNA

82 <213> ORGANISM: Mus musculus

84 <220> FEATURE:

85 <221> NAME/KEY: CDS

86 <222> LOCATION: (1)...(315)

88 <400> SEQUENCE: 3

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90 Pro Leu Ser Leu Pro Val Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys

91 1 5 10 15

93 aga tct agt cag agc att gta cat agt aat gga aac acc tat tta gaa 96

94 Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu

95 20 25 30

97 tgg tac ctg cag aaa cca ggc cag tct cca aag ctc ctg atc tac aaa 144

98 Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys

99 35 40 45

101 gtt tcc aac cga ttt tct ggg gtc cca gac agg ttc agt ggc agt gga 192

102 Val Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly

103 50 55 60

105 tca ggg aca gat ttc aca ctc aag atc agc aga gtg gag gct gag gat 240

106 Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp

107 65 70 75 80

109 ctg gga gtt tat tac tgc ttt caa ggt tca cat gtt ccg tac acg ttc 288

110 Leu Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro Tyr Thr Phe

111 85 90 95

113 gga ggg ggg acc aag ctg gaa ata aaa 315

114 Gly Gly Gly Thr Lys Leu Glu Ile Lys

115 100 105

118 <210> SEQ ID NO: 4

119 <211> LENGTH: 105

120 <212> TYPE: PRT

121 <213> ORGANISM: Mus musculus

123 <400> SEQUENCE: 4

124 Pro Leu Ser Leu Pro Val Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys

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126	Arg	Ser	Ser	Gln	Ser	Ile	Val	His	Ser	Asn	Gly	Asn	Thr	Tyr	Leu	Glu	
127				20					25					30			
128	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Lys	Leu	Leu	Ile	Tyr	Lys	
129			35					40					45				
130	Val	Ser	Asn	Arg	Phe	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	
131		50					55					60					
132	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	
133	65					70					75					80	
134	Leu	Gly	Val	Tyr	Tyr	Cys	Phe	Gln	Gly	Ser	His	Val	Pro	Tyr	Thr	Phe	
135					85					90					95		
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142	<212> TYPE: DNA																
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152	1				5					10					15		
154	ttg	tgg	aat	tat	aag	ctg	aac	cta	act	aca	gat	ccc	aaa	ttt	gaa	tct	96
155	Leu	Trp	Asn	Tyr	Lys	Leu	Asn	Leu	Thr	Thr	Asp	Pro	Lys	Phe	Glu	Ser	
156				20					25					30			
158	gtg	gcc	aga	gag	gtt	tgc	aaa	tct	act	ata	aca	gag	att	gaa	gaa	tgt	144
159	Val	Ala	Arg	Glu	Val	Cys	Lys	Ser	Thr	Ile	Thr	Glu	Ile	Glu	Glu	Cys	
160			35					40					45				
162	gct	gat	gaa	ccg	gtt	gga	aaa	ggg	tac	atg	gtt	tcc	tgc	ttg	gtg	gat	192
163	Ala	Asp	Glu	Pro	Val	Gly	Lys	Gly	Tyr	Met	Val	Ser	Cys	Leu	Val	Asp	
164		50					55					60					
166	cac	cga	ggc	aac	atc	act	gag	tat	cag	tgt	cac	cag	tac	att	acc	aag	240
167	His	Arg	Gly	Asn	Ile	Thr	Glu	Tyr	Gln	Cys	His	Gln	Tyr	Ile	Thr	Lys	
168	65				70					75						80	
170	atg	acg	gcc	atc	att	ttt	agt	gat	tac	cgt	tta	atc	tgt	ggc	ttc	atg	288
171	Met	Thr	Ala	Ile	Ile	Phe	Ser	Asp	Tyr	Arg	Leu	Ile	Cys	Gly	Phe	Met	
172				85					90					95			
174	gat	gac	tgc	aaa	aat	gac	atc	aac	att	ctg	aaa	tgt	ggc	agt	att	cgg	336
175	Asp	Asp	Cys	Lys	Asn	Asp	Ile	Asn	Ile	Leu	Lys	Cys	Gly	Ser	Ile	Arg	
176				100					105					110			
178	ctt	gga	gaa	aag	gat	gca	cat	tca	caa	ggg	gag	gtg	gta	tca	tgc	ttg	384
179	Leu	Gly	Glu	Lys	Asp	Ala	His	Ser	Gln	Gly	Glu	Val	Val	Ser	Cys	Leu	
180			115					120					125				
182	gag	aaa	ggc	ctg	gtg	aaa	gaa	gca	gaa	gaa	aga	gaa	ccc	aag	att	caa	432
183	Glu	Lys	Gly	Leu	Val	Lys	Glu	Ala	Glu	Glu	Arg	Glu	Pro	Lys	Ile	Gln	
184		130					135					140					
186	gtt	tct	gaa	ctc	tgc	aag	aaa	gcc	att	ctc	cgg	gtg	gct	gag	ctg	tca	480

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187	Val	Ser	Glu	Leu	Cys	Lys	Lys	Ala	Ile	Leu	Arg	Val	Ala	Glu	Leu	Ser	
188	145					150				155						160	
190	tcg	gat	gac	ttt	cac	tta	gac	cgg	cat	tta	tat	ttt	gct	tgc	cga	gat	528
191	Ser	Asp	Asp	Phe	His	Leu	Asp	Arg	His	Leu	Tyr	Phe	Ala	Cys	Arg	Asp	
192					165					170					175		
194	gat	cgg	gag	cgt	ttt	tgt	gaa	aat	aca	caa	gct	ggt	gag	ggc	aga	gtg	576
195	Asp	Arg	Glu	Arg	Phe	Cys	Glu	Asn	Thr	Gln	Ala	Gly	Glu	Gly	Arg	Val	
196					180					185					190		
198	tat	aag	tgc	ctc	ttt	aac	cat	aaa	ttt	gaa	gaa	tcc	atg	agt	gaa	aag	624
199	Tyr	Lys	Cys	Leu	Phe	Asn	His	Lys	Phe	Glu	Glu	Ser	Met	Ser	Glu	Lys	
200					195					200					205		
202	tgt	cga	gaa	gca	ctt	aca	acc	cgc	caa	aag	ctg	att	gcc	cag	gat	tat	672
203	Cys	Arg	Glu	Ala	Leu	Thr	Thr	Arg	Gln	Lys	Leu	Ile	Ala	Gln	Asp	Tyr	
204		210							215						220		
206	aaa	gtc	agt	tat	tca	ttg	gcc	aaa	tcc	tgt	aaa	agt	gac	ttg	aag	aaa	720
207	Lys	Val	Ser	Tyr	Ser	Leu	Ala	Lys	Ser	Cys	Lys	Ser	Asp	Leu	Lys	Lys	
208	225					230					235					240	
210	tac	cgg	tgc	aat	gtg	gaa	aac	ctt	ccg	cga	tcg	cgt	gaa	gcc	agg	ctc	768
211	Tyr	Arg	Cys	Asn	Val	Glu	Asn	Leu	Pro	Arg	Ser	Arg	Glu	Ala	Arg	Leu	
212					245					250					255		
214	tcc	tac	ttg	tta	atg	tgc	ctg	gag	tca	gct	gta	cac	aga	ggg	cga	caa	816
215	Ser	Tyr	Leu	Leu	Met	Cys	Leu	Glu	Ser	Ala	Val	His	Arg	Gly	Arg	Gln	
216					260					265					270		
218	gtc	agc	agt	gag	tgc	cag	ggg	gag	atg	ctg	gat	tac	cga	cgc	atg	ttg	864
219	Val	Ser	Ser	Glu	Cys	Gln	Gly	Glu	Met	Leu	Asp	Tyr	Arg	Arg	Met	Leu	
220					275					280					285		
222	atg	gaa	gac	ttt	tct	ctg	agc	cct	gag	atc	atc	cta	agc	tgt	cgg	ggg	912
223	Met	Glu	Asp	Phe	Ser	Leu	Ser	Pro	Glu	Ile	Ile	Leu	Ser	Cys	Arg	Gly	
224		290							295						300		
226	gag	att	gaa	cac	cat	tgt	tcc	gga	tta	cat	cga	aaa	ggg	cgg	acc	cta	960
227	Glu	Ile	Glu	His	His	Cys	Ser	Gly	Leu	His	Arg	Lys	Gly	Arg	Thr	Leu	
228	305					310					315					320	
230	cac	tgt	ctg	atg	aaa	gta	gtt	cga	ggg	gag	aag	ggg	aac	ctt	gga	atg	1008
231	His	Cys	Leu	Met	Lys	Val	Val	Arg	Gly	Glu	Lys	Gly	Asn	Leu	Gly	Met	
232					325					330					335		
234	aac	tgc	cag	cag	gcg	ctt	caa	aca	ctg	att	cag	gag	act	gac	cct	ggt	1056
235	Asn	Cys	Gln	Gln	Ala	Leu	Gln	Thr	Leu	Ile	Gln	Glu	Thr	Asp	Pro	Gly	
236					340					345					350		
238	gca	gat	tac	cgc	att	gat	cga	gct	ttg	aat	gaa	gct	tgt	gaa	tct	gta	1104
239	Ala	Asp	Tyr	Arg	Ile	Asp	Arg	Ala	Leu	Asn	Glu	Ala	Cys	Glu	Ser	Val	
240					355				360						365		
242	atc	cag	aca	gcc	tgc	aaa	cat	ata	aga	tct	gga	gac	cca	atg	atc	ttg	1152
243	Ile	Gln	Thr	Ala	Cys	Lys	His	Ile	Arg	Ser	Gly	Asp	Pro	Met	Ile	Leu	
244		370							375						380		
246	tcg	tgc	ctg	atg	gaa	cat	tta	tac	aca	gag	aag	atg	gta	gaa	gac	tgt	1200
247	Ser	Cys	Leu	Met	Glu	His	Leu	Tyr	Thr	Glu	Lys	Met	Val	Glu	Asp	Cys	
248	385					390					395					400	
250	gaa	cac	cgt	ctc	tta	gag	ctg	cag	tat	ttc	atc	tcc	cgg	gat	tgg	aag	1248
251	Glu	His	Arg	Leu	Leu	Glu	Leu	Gln	Tyr	Phe	Ile	Ser	Arg	Asp	Trp	Lys	

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252				405				410				415					
254	ctg	gac	cct	gtc	ctg	tac	cgc	aag	tgc	cag	gga	gac	gct	tct	cgt	ctt	1296
255	Leu	Asp	Pro	Val	Leu	Tyr	Arg	Lys	Cys	Gln	Gly	Asp	Ala	Ser	Arg	Leu	
256				420				425				430					
258	tgc	cac	acc	cac	ggg	tgg	aat	gag	acc	agc	gaa	ttt	atg	cct	cag	gga	1344
259	Cys	His	Thr	His	Gly	Trp	Asn	Glu	Thr	Ser	Glu	Phe	Met	Pro	Gln	Gly	
260			435				440					445					
262	gct	gtg	ttc	tct	tgt	tta	tac	aga	cac	gcc	tac	cgc	act	gag	gaa	cag	1392
263	Ala	Val	Phe	Ser	Cys	Leu	Tyr	Arg	His	Ala	Tyr	Arg	Thr	Glu	Glu	Gln	
264		450					455				460						
266	gga	agg	agg	ctc	tca	cgg	gag	tgc	cga	gct	gaa	gtc	caa	agg	atc	cta	1440
267	Gly	Arg	Arg	Leu	Ser	Arg	Glu	Cys	Arg	Ala	Glu	Val	Gln	Arg	Ile	Leu	
268	465					470				475					480		
270	cac	cag	cgt	gcc	atg	gat	gtc	aag	ctg	gat	cct	gcc	ctc	cag	gat	aag	1488
271	His	Gln	Arg	Ala	Met	Asp	Val	Lys	Leu	Asp	Pro	Ala	Leu	Gln	Asp	Lys	
272			485				490					495					
274	tgc	ctg	att	gat	ctg	gga	aaa	tgg	tgc	agt	gag	aaa	aca	gag	act	gga	1536
275	Cys	Leu	Ile	Asp	Leu	Gly	Lys	Trp	Cys	Ser	Glu	Lys	Thr	Glu	Thr	Gly	
276			500				505					510					
278	cag	aag	ctg	gag	tgc	ctt	cag	gac	cat	ctg	gat	gac	tta	gtg	gtg	gag	1584
279	Gln	Lys	Leu	Glu	Cys	Leu	Gln	Asp	His	Leu	Asp	Asp	Leu	Val	Val	Glu	
280			515				520					525					
282	tgt	aga	gat	ata	gtt	ggc	aac	ctc	act	gag	tta	gaa	tca	gag	gat	att	1632
283	Cys	Arg	Asp	Ile	Val	Gly	Asn	Leu	Thr	Glu	Leu	Glu	Ser	Glu	Asp	Ile	
284		530					535				540						
286	caa	ata	gaa	gcc	ttg	ctg	atg	aga	gcc	tgt	gag	ccc	ata	att	cag	aac	1680
287	Gln	Ile	Glu	Ala	Leu	Leu	Met	Arg	Ala	Cys	Glu	Pro	Ile	Ile	Gln	Asn	
288	545					550				555					560		
290	ttc	tgc	cac	gat	gtg	gca	gat	aac	cag	ata	gac	tcc	ggg	gac	ctg	atg	1728
291	Phe	Cys	His	Asp	Val	Ala	Asp	Asn	Gln	Ile	Asp	Ser	Gly	Asp	Leu	Met	
292			565				570					575					
294	gag	tgt	ctg	ata	cag	aac	aaa	cac	cag	aag	gac	atg	aac	gag	aag	tgt	1776
295	Glu	Cys	Leu	Ile	Gln	Asn	Lys	His	Gln	Lys	Asp	Met	Asn	Glu	Lys	Cys	
296			580				585					590					
298	gcc	atc	gga	gtt	acc	cac	ttc	cag	ctg	gtg	cag	atg	aag	gat	ttt	cgg	1824
299	Ala	Ile	Gly	Val	Thr	His	Phe	Gln	Leu	Val	Gln	Met	Lys	Asp	Phe	Arg	
300			595				600					605					
302	ttt	tct	tac	aag	ttt	aaa	atg	gcc	tgc	aag	gag	gac	gtg	ttg	aag	ctt	1872
303	Phe	Ser	Tyr	Lys	Phe	Lys	Met	Ala	Cys	Lys	Glu	Asp	Val	Leu	Lys	Leu	
304		610					615				620						
306	tgc	cca	aac	ata	aaa	aag	aag	gtg	gac	gtg	gtg	atc	tgc	ctg	agc	acg	1920
307	Cys	Pro	Asn	Ile	Lys	Lys	Lys	Val	Asp	Val	Val	Ile	Cys	Leu	Ser	Thr	
308	625					630				635					640		
310	acc	gtg	cgc	aat	gac	act	ctg	cag	gaa	gcc	aag	gag	cac	agg	gtg	tcc	1968
311	Thr	Val	Arg	Asn	Asp	Thr	Leu	Gln	Glu	Ala	Lys	Glu	His	Arg	Val	Ser	
312			645				650					655					
314	ctg	aag	tgc	cgc	agg	cag	ctc	cgt	gtg	gag	gag	ctg	gag	atg	acg	gag	2016
315	Leu	Lys	Cys	Arg	Arg	Gln	Leu	Arg	Val	Glu	Glu	Leu	Glu	Met	Thr	Glu	
316			660				665					670					

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1059 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:26,Line#:1057

L:1099 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:27,Line#:1097